

EXHIBIT NO. \_\_\_(JAH-17)  
DOCKET NO. UG-040640, *et al.* (consolidated)  
2004 PSE GENERAL RATE CASE  
WITNESS: JAMES A. HEIDELL

BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY, INC.,

Respondent.

Docket No. UG-040640  
Docket No. UE-040641  
(*consolidated*)

In the Matter of the Petition of

PUGET SOUND ENERGY, INC.

For an Order Regarding the Accounting  
Treatment for Certain Costs of the Company's  
Power Cost Only Rate Filing.

Docket No. UE-031471 (*consolidated*)

In the Matter of the Petition of

PUGET SOUND ENERGY, INC.

For an Accounting Order Authorizing  
Deferral and Recovery of the Investment  
and Costs Related to the White River  
Hydroelectric Project.

Docket No. UE-032043 (*consolidated*)

THIRD EXHIBIT TO THE  
PREFILED REBUTTAL TESTIMONY OF  
JAMES A. HEIDELL (NONCONFIDENTIAL)  
ON BEHALF OF PUGET SOUND ENERGY, INC.

NOVEMBER 3, 2004

**Electric Consumption for New Customers**

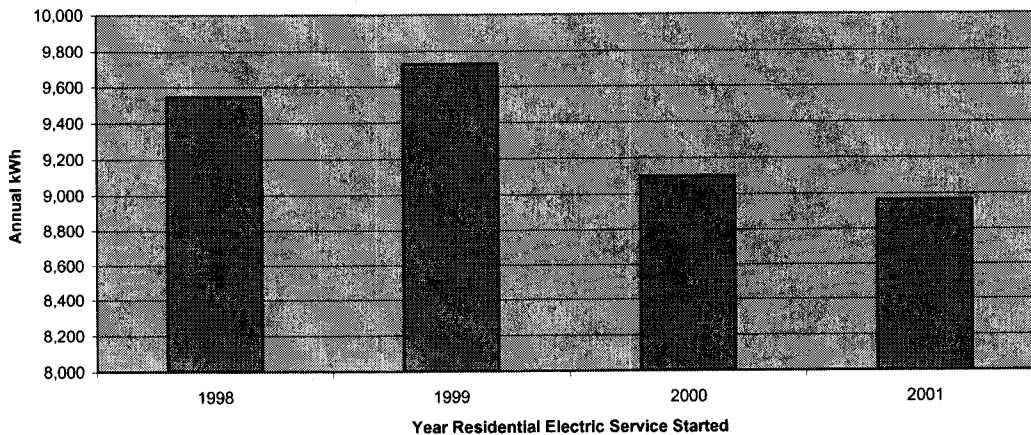
Vintage	Customers	2003 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	508,817	12,163			
1986 TO 1997	257,013	11,130			
Adjust to Actual	1,646	11,130			
1998	16,161	9,867	11,775		
1999	15,036	10,167	11,744		
2000	13,313	9,822	11,713	-0.268%	
2001	15,697	9,424	11,669	-0.371%	
2002	13,871	8,794	11,622	-0.406%	-0.348%

Vintage	Customers	2002 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	509,991	12,222			
1986 TO 1997	218,769	11,055			
Adjust to Actual	38,716	11,055			
1998	16,368	9,573	11,783		
1999	15,236	9,751	11,745		
2000	13,679	9,240	11,702	-0.359%	
2001	14,403	8,504	11,647	-0.476%	-0.417%

Vintage	Customers	2001 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	512,311	12,043			
1986 TO 1997	218,926	10,769			
Adjust to Actual	36,239	10,769			
1998	16,339	9,201	11,569		
1999	15,200	9,253	11,525		
2000	12,460	8,236	11,474	-0.438%	-0.438%

**Average Across Years of Consumption**  
 -0.440% -0.401%

**Customer Additions Account for Only Some of the Decline in Use Per Customer**



(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification

**Natural Gas Consumption for New Customers**

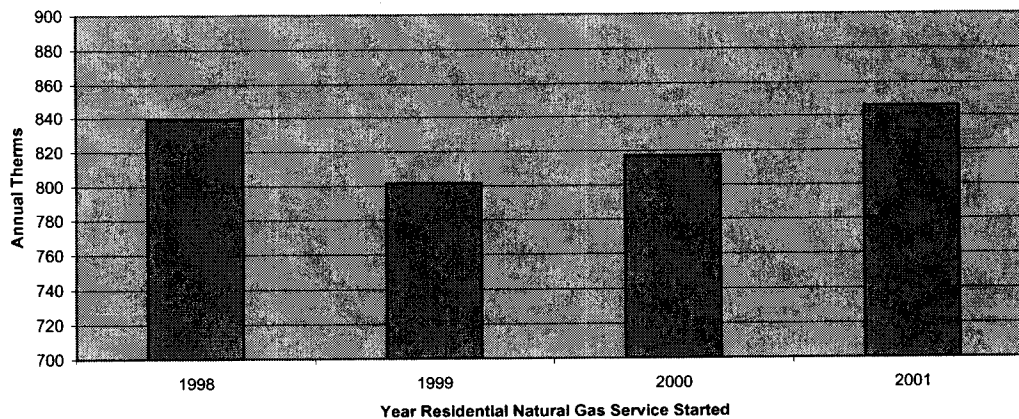
Vintage	Customers	2003 Therms	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	136,260	911			
1986 TO 1997	312,236	854			
1998	19,704	818			
1999	22,654	783	865		
2000	18,077	806	863	-0.242%	
2001	18,561	835	862	-0.114%	
2002	20,040	786	859	-0.325%	-0.227%

Vintage	Customers	2002 Therms	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	136,690	963			
1986 TO 1997	313,116	901			
1998	19,794	854			
1999	22,782	816	912		
2000	18,333	832	909	-0.316%	
2001	18,596	857	907	-0.202%	-0.259%

Vintage	Customers	2001 Therms	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	137,525	956			
1986 TO 1997	315,750	892			
1998	20,067	845			
1999	23,092	805	904		
2000	18,386	812	900	-0.361%	-0.361%

Average Across Years of  
 -0.296% -0.282%

**Customer Additions Account for Only Some of the Decline in Use Per Customer**



(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification

**Electric Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Space Heat	Customers	2003 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	SINGLE FAM	Y	135,491	16,148			
1986 TO 1997	SINGLE FAM	Y	33,367	16,470			
	1998 SINGLE FAM	Y	1,358	16,898			
	1999 SINGLE FAM	Y	1,456	16,230	16,217		
	2000 SINGLE FAM	Y	1,323	15,904	16,215	-0.015%	
	2001 SINGLE FAM	Y	1,506	16,285	16,215	0.004%	
	2002 SINGLE FAM	Y	1,407	15,916	16,213	-0.015%	-0.009%
BEFORE 1986	MULTI FAM	Y	89,593	9,246			
1986 TO 1997	MULTI FAM	Y	57,326	9,139			
	1998 MULTI FAM	Y	1,453	8,089			
	1999 MULTI FAM	Y	1,289	7,980	9,183		
	2000 MULTI FAM	Y	1,936	7,525	9,162	-0.231%	
	2001 MULTI FAM	Y	2,312	6,603	9,123	-0.419%	
	2002 MULTI FAM	Y	1,635	5,344	9,083	-0.435%	-0.362%
BEFORE 1986	OTHER	Y	48,545	14,656			
1986 TO 1997	OTHER	Y	19,926	15,235			
	1998 OTHER	Y	820	15,523			
	1999 OTHER	Y	672	14,524	14,830		
	2000 OTHER	Y	609	14,562	14,827	-0.016%	
	2001 OTHER	Y	642	14,978	14,829	0.009%	
	2002 OTHER	Y	533	14,550	14,827	-0.014%	-0.007%
1986 TO 1997	SINGLE FAM	N	94,329	10,223			
BEFORE 1986	SINGLE FAM	N	215,671	10,657			
	1998 SINGLE FAM	N	8,689	10,106			
	1999 SINGLE FAM	N	8,057	10,245	10,507		
	2000 SINGLE FAM	N	5,781	10,302	10,503	-0.034%	
	2001 SINGLE FAM	N	8,529	9,427	10,477	-0.256%	
	2002 SINGLE FAM	N	8,174	8,679	10,434	-0.401%	-0.231%
1986 TO 1997	MULTI FAM	N	6,909	5,809			
BEFORE 1986	MULTI FAM	N	6,196	4,906			
	1998 MULTI FAM	N	3,097	5,969			
	1999 MULTI FAM	N	2,580	6,731	5,664		
	2000 MULTI FAM	N	2,440	6,333	5,741	1.359%	
	2001 MULTI FAM	N	1,910	5,799	5,746	0.084%	
	2002 MULTI FAM	N	1,422	5,210	5,715	-0.540%	0.298%
1986 TO 1997	OTHER	N	5,731	7,360			
BEFORE 1986	OTHER	N	10,614	8,361			
	1998 OTHER	N	659	7,606			
	1999 OTHER	N	860	9,534	8,069		
	2000 OTHER	N	1,052	9,550	8,151	1.021%	
	2001 OTHER	N	676	9,123	8,185	0.412%	
	2002 OTHER	N	586	6,675	8,141	-0.536%	0.297%

(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification

**Electric Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Space Heat	Customers	2003 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	SINGLE FAM	?	1,439	21,193			
1986 TO 1997	SINGLE FAM	?	468	10,493			
	1998 SINGLE FAM	?	29	10,436			
	1999 SINGLE FAM	?	54	10,534			
	2000 SINGLE FAM	?	48	9,057			
	2001 SINGLE FAM	?	36	9,564	17,868		
	2002 SINGLE FAM	?	39	9,240	17,709	-0.891%	
BEFORE 1986	MULTI FAM	?	877	9,079			
1986 TO 1997	MULTI FAM	?	825	9,192			
	1998 MULTI FAM	?	42	7,018			
	1999 MULTI FAM	?	63	7,078			
	2000 MULTI FAM	?	114	6,386			
	2001 MULTI FAM	?	82	6,080	8,744		
	2002 MULTI FAM	?	68	6,286	8,663	-0.923%	
BEFORE 1986	OTHER	?	391	12,303			
1986 TO 1997	OTHER	?	132	11,458			
	1998 OTHER	?	14	9,034			
	1999 OTHER	?	5	12,549			
	2000 OTHER	?	10	6,931			
	2001 OTHER	?	4	6,398	11,883		
	2002 OTHER	?	7	5,406	11,803	-0.678%	

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**Electric Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Space Heat	Customers	2002 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	SINGLE FAM	Y	135,222	16,385			
1986 TO 1997	SINGLE FAM	Y	33,366	16,530			
	1998 SINGLE FAM	Y	1,364	16,821			
	1999 SINGLE FAM	Y	1,430	16,028	16,413		
	2000 SINGLE FAM	Y	1,311	15,651	16,408	-0.035%	
	2001 SINGLE FAM	Y	1,333	15,600	16,401	-0.038%	-0.036%
BEFORE 1986	MULTI FAM	Y	88,978	9,497			
1986 TO 1997	MULTI FAM	Y	56,778	9,314			
	1998 MULTI FAM	Y	1,455	8,308			
	1999 MULTI FAM	Y	1,277	7,958	9,402		
	2000 MULTI FAM	Y	1,834	7,570	9,380	-0.238%	
	2001 MULTI FAM	Y	2,202	5,843	9,329	-0.544%	-0.391%
BEFORE 1986	OTHER	Y	48,567	14,952			
1986 TO 1997	OTHER	Y	19,903	15,375			
	1998 OTHER	Y	808	15,473			
	1999 OTHER	Y	656	14,820	15,077		
	2000 OTHER	Y	615	14,655	15,074	-0.024%	
	2001 OTHER	Y	591	15,396	15,076	0.018%	-0.003%
BEFORE 1986	SINGLE FAM	N	215,784	10,551			
1986 TO 1997	SINGLE FAM	N	94,356	9,893			
	1998 SINGLE FAM	N	8,710	9,654			
	1999 SINGLE FAM	N	8,048	9,737	10,317		
	2000 SINGLE FAM	N	5,754	9,456	10,302	-0.144%	
	2001 SINGLE FAM	N	7,497	8,430	10,261	-0.401%	-0.273%
BEFORE 1986	MULTI FAM	N	6,175	4,866			
1986 TO 1997	MULTI FAM	N	6,868	5,755			
	1998 MULTI FAM	N	3,057	5,862			
	1999 MULTI FAM	N	2,546	6,598	5,593		
	2000 MULTI FAM	N	2,346	6,081	5,647	0.975%	
	2001 MULTI FAM	N	1,945	5,250	5,614	-0.597%	0.186%
BEFORE 1986	OTHER	N	10,592	8,335			
1986 TO 1997	OTHER	N	5,680	7,247			
	1998 OTHER	N	668	7,314			
	1999 OTHER	N	837	9,087	7,984		
	2000 OTHER	N	1,051	9,040	8,043	0.738%	
	2001 OTHER	N	645	8,058	8,043	0.006%	0.372%
BEFORE 1986	SINGLE FAM	?	2,759	11,484			
1986 TO 1997	SINGLE FAM	?	696	10,612			
	1998 SINGLE FAM	?	70	9,907			
	1999 SINGLE FAM	?	125	9,903			
	2000 SINGLE FAM	?	129	8,844	11,152		
	2001 SINGLE FAM	?	40	7,514	11,114	-0.342%	
BEFORE 1986	MULTI FAM	?	1,180	8,970			
1986 TO 1997	MULTI FAM	?	912	8,861			
	1998 MULTI FAM	?	208	6,401			
	1999 MULTI FAM	?	302	5,340			
	2000 MULTI FAM	?	603	5,635	7,802		
	2001 MULTI FAM	?	139	5,209	7,695	-1.382%	
BEFORE 1986	OTHER	?	734	12,377			
1986 TO 1997	OTHER	?	210	11,724			
	1998 OTHER	?	28	8,340			
	1999 OTHER	?	15	9,379			
	2000 OTHER	?	36	7,408	11,914		
	2001 OTHER	?	11	8,316	11,875	-0.321%	

(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification

**Electric Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Space Heat	Customers	2001 kWh	Average Use	Year-on-Year Decline	Annualized Decline
BEFORE 1986	SINGLE FAM	Y	135,406	16,085			
1986 TO 1997	SINGLE FAM	Y	33,299	16,091			
1998	SINGLE FAM	Y	1,350	16,244			
1999	SINGLE FAM	Y	1,426	15,289	16,081		
2000	SINGLE FAM	Y	1,135	14,326	16,069	-0.072%	-0.072%
BEFORE 1986	MULTI FAM	Y	89,457	9,473			
1986 TO 1997	MULTI FAM	Y	56,900	9,240			
1998	MULTI FAM	Y	1,452	8,160			
1999	MULTI FAM	Y	1,277	7,792	9,357		
2000	MULTI FAM	Y	1,855	6,938	9,327	-0.318%	-0.318%
BEFORE 1986	OTHER	Y	48,625	14,686			
1986 TO 1997	OTHER	Y	19,974	14,973			
1998	OTHER	Y	813	14,865			
1999	OTHER	Y	663	14,133	14,765		
2000	OTHER	Y	608	14,156	14,760	-0.035%	-0.035%
BEFORE 1986	SINGLE FAM	N	215,933	10,338			
1986 TO 1997	SINGLE FAM	N	94,196	9,542			
1998	SINGLE FAM	N	8,716	9,167			
1999	SINGLE FAM	N	8,028	9,079	10,046		
2000	SINGLE FAM	N	4,616	8,219	10,021	-0.253%	-0.253%
2001	SINGLE FAM	N	1	11,453			
BEFORE 1986	MULTI FAM	N	6,273	4,743			
1986 TO 1997	MULTI FAM	N	6,894	5,624			
1998	MULTI FAM	N	3,040	5,810			
1999	MULTI FAM	N	2,558	6,567	5,488		
2000	MULTI FAM	N	2,466	5,634	5,505	0.310%	0.310%
BEFORE 1986	OTHER	N	10,634	8,109			
1986 TO 1997	OTHER	N	5,667	6,990			
1998	OTHER	N	659	7,064			
1999	OTHER	N	797	8,501	7,731		
2000	OTHER	N	988	8,500	7,772	0.524%	0.524%

(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification

**Natural Gas Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Customers	2003 Therms	Average Use	Year-on-Year Decline
BEFORE 1986	SINGLE FAM	101,579	931		
1986 TO 1997	SINGLE FAM	284,636	881		
	1998 SINGLE FAM	17,156	865		
	1999 SINGLE FAM	19,189	844		
	2000 SINGLE FAM	15,601	847	889	
	2001 SINGLE FAM	13,115	879	889	-0.032%
	2002 SINGLE FAM	16,073	842	887	-0.180%
BEFORE 1986	MULTI FAM	1,241	373		
1986 TO 1997	MULTI FAM	9,121	367		
	1998 MULTI FAM	1,228	438		
	1999 MULTI FAM	2,633	387		
	2000 MULTI FAM	1,087	428	381	
	2001 MULTI FAM	1,477	552	396	3.942%
	2002 MULTI FAM	1,918	488	406	2.376%
BEFORE 1986	OTHER	33,440	870		
1986 TO 1997	OTHER	18,479	690		
	1998 OTHER	1,320	560		
	1999 OTHER	832	629		
	2000 OTHER	1,389	647	793	
	2001 OTHER	3,969	796	794	0.020%
	2002 OTHER	2,049	623	690	-13.020%

Vintage	Housing Type	Customers	2002 Therms	Average Use	Year-on-Year Decline
BEFORE 1986	SINGLE FAM	101,830	985		
1986 TO 1997	SINGLE FAM	285,422	929		
	1998 SINGLE FAM	17,188	904		
	1999 SINGLE FAM	19,289	881		
	2000 SINGLE FAM	15,726	876	937	
	2001 SINGLE FAM	13,107	905	936	-0.100%
BEFORE 1986	MULTI FAM	1,299	391		
1986 TO 1997	MULTI FAM	9,193	388		
	1998 MULTI FAM	1,264	447		
	1999 MULTI FAM	2,658	398		
	2000 MULTI FAM	1,227	448	399	
	2001 MULTI FAM	1,482	537	411	2.995%
BEFORE 1986	OTHER	33,561	916		
1986 TO 1997	OTHER	18,501	725		
	1998 OTHER	1,342	587		
	1999 OTHER	835	657		
	2000 OTHER	1,380	669	835	
	2001 OTHER	4,007	819	833	-0.128%

(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification



**Natural Gas Consumption for New Customers by Housing Type<sup>1</sup>**

Vintage	Housing Type	Customers	2001 Therms	Average Use	Year-on-Year Decline
BEFORE 1986	SINGLE FAM	102,398	979		
1986 TO 1997	SINGLE FAM	287,108	920		
	1998 SINGLE FAM	17,344	897		
	1999 SINGLE FAM	19,591	868	931	
	2000 SINGLE FAM	15,639	864	928	-0.253%
BEFORE 1986	MULTI FAM	1,339	382		
1986 TO 1997	MULTI FAM	9,715	387		
	1998 MULTI FAM	1,349	442		
	1999 MULTI FAM	2,678	396	393	
	2000 MULTI FAM	1,395	398	393	0.117%
BEFORE 1986	OTHER	33,788	909		
1986 TO 1997	OTHER	18,927	720		
	1998 OTHER	1,374	591		
	1999 OTHER	823	640	832	
	2000 OTHER	1,352	638	827	-0.560%

(1) Categorization of customers by housing type and fuel source for space heat is subject to further verification